



## MEDICAL MICROBIOLOGY AND IMMUNOLOGY

Volume 173 · 1984/1985

### Editorial Board

R. Rott (Editor-in-Chief),  
Giessen, Germany  
A. C. Allison, Harrow, England  
E. Habermann, Giessen, Germany  
H. zur Hausen, Heidelberg, Germany  
N. Ishida, Sendai, Japan  
M. Katz, New York, USA  
P. J. Lachmann, Cambridge, England  
P. H. Lambert, Geneva, Switzerland  
F. Lehmann-Grube, Hamburg, Germany

S. J. Martin, Belfast, N.-Ireland  
L. J. Mata, Costa Rica  
V. ter Meulen, Würzburg, Germany  
M. E. Miller, Sacramento, USA  
E. Norrby, Stockholm, Sweden  
F. Ørskov, Copenhagen, Denmark  
F. T. Perkins, Geneva, Switzerland  
J. H. Pope, Herston, Australia  
J. B. Robbins, Bethesda, Md., USA  
V. A. Toma, Mmabatho, Southern Africa

Editor-in-Chief: R. Rott



Springer International

Founded in 1886 by Robert Koch, C. Flügge, F. Neufeld, M. Hahn, R. Doerr, H. Dold, R. Otto, H. Schlossberger etc. als Zeitschrift für Hygiene und Infektionskrankheiten. Vols. 148 to 151 were published under the title: Zeitschrift für Hygiene und Infektionskrankheiten, Medizinische Mikrobiologie, Immunologie und Virologie. From Vol. 152 to 156 the title was: Zeitschrift für Medizinische Mikrobiologie und Immunologie. Vols. 1-90 (1920) Leipzig, Veit & Co., later Berlin, Vereinigung wissenschaftlicher Verleger Walter de Gruyter & Co., from Vol. 91 on Berlin, Springer.

---

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the (publisher, society); and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

*Special regulations for photocopies in the USA:* Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$ 0.20 per page, or a minimum of US \$ 1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0300-8584, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

*Other regulations:* Authors publishing in this journal can, under certain conditions, benefit from library and photocopy fees collected by VG WORT. Authors resident in the Federal Republic of Germany or in West Berlin can apply to Verwertungsgesellschaft WORT, Abteilung Wissenschaft, Goethestraße 49, D-8000 München 2, for detailed information.

Printed in Germany by Konrad Tritsch, Graphischer Betrieb, D-8700 Würzburg

© Springer-Verlag Berlin Heidelberg 1984/1985

# Contents

Alouf, J. E., s. Megret, F., et al. . . . .	225
Agarwal, K. C., s. Pancholi, V., et al. . . . .	319
Ansorg, R. A., Heine, S., Kraus, C. J.: Substitution of anti-human globulin by protein A-bearing staphylococci in the detection of <i>Brucella</i> antibodies . . . . .	233
Aso, H., s. Ebina, T., et al. . . . .	87
Ayyagari, A., s. Pancholi, V., et al. . . . .	319
Bassaris, H. P., Lianou, P. E., Legakis, N. J., Papavassiliou, J. Th.: Interaction between <i>Clostridium difficile</i> and polymorphonuclear leucocytes from the elderly and post-operative cancer patients: phagocytosis and bactericidal function . . . . .	49
Bayer, H., s. Hunsmann, G., et al. . . . .	167, 241
Bendinelli, M., s. Toniolo, A., et al. . . . .	197
Beranek, C. F., Herschkowitz, N.: Metabolic studies on vaccinia-virus-infected oligodendrocytes in brain cell cultures . . . . .	95
Berthold, H., s. Hunsmann, G., et al. . . . .	241
Biendl, U., s. Hunsmann, G., et al. . . . .	241
Blobel, H., s. Chhatwal, G. S., et al. . . . .	19
Büttner, D. W., s. Hunsmann, G., et al. . . . .	167
Chhatwal, G. S., Lämmli, C., Blobel, H.: Guanidine extraction enhances the binding of human fibrinogen to group-B streptococci . . . . .	19
Chosa, T., s. Koyanagi, Y., et al. . . . .	127
Cleat, P. H., Coid, C. R.: The mode of action of antibody in neutrophil bactericidal activity against highly pathogenic group-B streptococci . . . . .	65
Coid, C. R., s. Cleat, P. H. . . . .	65
Conaldi, P. G., s. Toniolo, A., et al. . . . .	197
Criado, M. T., s. Ferreiros, C. M. . . . .	105
Darai, G., s. Rösen, A., et al. . . . .	257, 329
Dietrich, M., s. Hunsmann, G., et al. . . . .	167, 241
Döller, G., s. Döller, P. C., et al. . . . .	291
Döller, P. C., Döller, G., Gerth, H.-J.: Immunofluorescence test with antigen-loaded erythrocytes: Detection of influenza virus specific IgG, IgA, and IgM antibodies . . . . .	291
Dorta de Mazzonelli, G. T., s. Mazzonelli, J., et al. . . . .	141
Ebina, T., Sato, A., Umezawa, K., Aso, H., Ishida, N., Seki, H., Tsukamoto, T., Takase, S., Hoshi, S., Ohta, M.: Treatment of multiple sclerosis with anti-measles cow colostrum . . . . .	87
Egwu, I. N., s. Huber, P. S. . . . .	345
Ehrlicher, L., Hoffmann, H.-G., Habermehl, K.-O.: Detection of respiratory virus antigens in nasopharyngeal secretions from patients with acute respiratory disease by radio-immunoassay and tissue culture isolation . . . . .	37
Eneroth, P., s. Landgren, B.-M., et al. . . . .	179
Falder, P., s. Tuffrey, M., et al. . . . .	29
Ferreiros, C. M., Criado, M. T.: Influence of K99 on the phagocytosis and killing of K99-positive <i>Escherichia coli</i> by mouse peritoneal cells in vitro . . . . .	105
Flehmig, B., s. Zahn, J., et al. . . . .	9
Fleming, A. F., s. Hunsmann, G., et al. . . . .	167
Flournoy, D. J.: Growth of clinical isolates in the cold . . . . .	45
Flournoy, D. J.: In vitro susceptibilities of <i>Haemophilus influenzae</i> isolates from a Veterans Administration Medical Center . . . . .	303
Forstbauer, H., s. Schneweis, K. E., et al. . . . .	187
Fournier, J.-M., s. Megret, F., et al. . . . .	225
Frese, K., s. Herzog, S., et al. . . . .	171
Gelderblom, H., s. Rösen, A., et al. . . . .	257
Gerlach, D., s. Schmidt, K.-H., et al. . . . .	145
Gerth, H.-J., s. Döller, P. C., et al. . . . .	291
Goudeau, A. M., s. Hunsmann, G., et al. . . . .	167

Habermehl, K.-O., s. Ehrlicher, L., et al. . . . .	37
Hahn, H., s. Näher, H., et al. . . . .	311
Hatanaka, M., s. Koyanagi, Y., et al. . . . .	127
Hayami, M., s. Yamamoto, N., et al. . . . .	57
Heine, S., s. Ansorg, R. A., et al. . . . .	233
Herschkowitz, N., s. Beranek, C. F. . . . .	95
Herzog, S., Kompter, C., Frese, K., Rott, R.: Replication of Borna disease virus in rats: age-dependent differences in tissue distribution . . . . .	171
Hinuma, Y., s. Koyanagi, Y., et al. . . . .	127
Hinuma, Y., s. Yamamoto, N., et al. . . . .	57
Hof, H.: Virulence of different strains of <i>Listeria monocytogenes</i> serovar 1/2a . . . . .	207
Hoffmann, H.-G., s. Ehrlicher, L., et al. . . . .	37
Hoshi, S., s. Ebina, T., et al. . . . .	87
Huber, P. S.: Capsular variation in experimental strains of <i>Haemophilus influenzae</i> . . . . .	345
Hunsmann, G., Bayer, H., Schneider, J., Schmitz, H., Kern, P., Dietrich, M., Büttner, D. W., Goudeau, A. M., Kulkarni, G., Fleming, A. F.: Antibodies to ATLV/HTLV-I in Africa . . . . .	167
Hunsmann, G., s. Koyanagi, Y., et al. . . . .	127
Hunsmann, G., Schneider, J., Bayer, H., Berthold, H., Schimpf, K., Kabisch, H., Ritter, K., Bienzle, U., Schmitz, H., Kern, P., Dietrich, M.: Antibodies to adult T-cell leukemia virus (ATLV/HTLV-I) in AIDS patients and people at risk of AIDS in Germany . . . . .	241
Hunsmann, G., s. Yamamoto, N., et al. . . . .	57
Ishida, N., s. Ebina, T., et al. . . . .	87
Jeljaszewicz, J., s. Roszkowski, W., et al. . . . .	279
Kabisch, H., s. Hunsmann, G., et al. . . . .	241
Kern, P., s. Hunsmann, G., et al. . . . .	167, 241
Ko, H. L., s. Roszkowski, W., et al. . . . .	279
Kobayashi, N., s. Koyanagi, Y., et al. . . . .	127
Köhler, W., s. Schmidt, K.-H., et al. . . . .	145
Kompter, C., s. Herzog, S., et al. . . . .	171
Komuro, A., s. Yamamoto, N., et al. . . . .	57
Koyanagi, Y., Hinuma, Y., Schneider, J., Chosa, T., Hunsmann, G., Kobayashi, N., Hatanaka, M., Yamamoto, N.: Expression of HTLV-specific polypeptides in various human T-cell lines . . . . .	127
Kraus, C. J., s. Ansorg, R. A., et al. . . . .	233
Kühnemund, O., s. Schmidt, K.-H., et al. . . . .	145
Kulkarni, G., s. Hunsmann, G., et al. . . . .	167
Lämmle, C., s. Chhatwal, G. S., et al. . . . .	19
Landgren, B.-M., Ljung-Wadström, A., Wikborn, C., Eneroth, P., Nord, C. E.: Microbial findings in genital secretions from seven healthy fertile couples . . . . .	179
Legalis, N. J., s. Bassaris, H. P., et al. . . . .	49
Lianou, P. E., s. Bassaris, H. P., et al. . . . .	49
Ljung-Wadström, A., s. Landgren, B.-M., et al. . . . .	179
Mailloux, M., s. Mazzonelli, J., et al. . . . .	141
Matsaura, M., s. Watanabe, T., et al. . . . .	251
Matteucci, D., s. Toniolo, A., et al. . . . .	197
Mazzonelli, J., Dorta da Mazzonelli, G. T., Mailloux, M.: Determination of the heat labile point of leptospiral antigens . . . . .	141
Megret, F., Fournier, J.-M., Alouf, J. E.: Comparative toxicity, protective, histamine sensitizing and leucocytosis promoting activities in mice of <i>Bordetella pertussis</i> culture fluid, bacterial cells and cell extracts . . . . .	225
Mutai, M., s. Yasutake, N., et al. . . . .	113
Näher, H., Sperling, U., Skupin-Schüssler, H., Hahn, H.: An adoptive transfer system for the investigation of granuloma formation in murine listeriosis . . . . .	311
Nimlich, W., Zingler, G.: Biochemical characteristics, phage patterns, and O1 factor analysis of <i>Escherichia coli</i> O1:K1:H7:F11 and O1:K1:H7:F9 strains isolated from patients with urinary tract infections . . . . .	75
Nishioka, K., s. Tanaka, S., et al. . . . .	155
Nord, C. E., s. Landgren, B.-M., et al. . . . .	179
Ohta, M., s. Ebina, T., et al. . . . .	87
Ohwaki, M., s. Yasutake, N., et al. . . . .	113
Okada, M., s. Yamamoto, N., et al. . . . .	57
Olbrich, M., s. Schneweis, K. E., et al. . . . .	187
Pancholi, V., Ayyagari, A., Agarwal, K. C.: Indirect serum haemagglutinating antibody response to black pigmented <i>Bacteroides</i> during experimental pure infections in rats . . . . .	319
Papavassiliou, J. Th., s. Bassaris, H. P., et al. . . . .	49

Poryo, A., Wigand, R.: Cutaneous herpes simplex virus infection of the guinea pig: lack of resistance of acyclovir and phosphonoformic acid after topical treatment . . . . .	219
Pulverer, G., s. Roszkowski, W., et al. . . . .	279
Ritter, K., s. Hunsmann, G., et al. . . . .	241
Rösen, A., Darai, G.: Mapping of the deletion in the genome of HSV-1 strain HFEM responsible for its avirulent phenotype . . . . .	329
Rösen, A., Gelderblom, H., Darai, G.: Transduction of virulence in herpes simplex virus type 1 from a pathogenic to an apathogenic strain by a cloned viral DNA fragment . . . . .	257
Roszkowski, W., Ko, H. L., Roszkowski, K., Jeljaszewicz, J., Pulverer, G.: Antibiotics and immunomodulation: Effects of cefotaxime, amikacin, mezlocillin, piperacillin and clindamycin . . . . .	279
Roszkowski, K., s. Roszkowski, W., et al. . . . .	279
Rott, R., s. Herzog, S., et al. . . . .	171
Sato, A., s. Ebina, T., et al. . . . .	87
Schimpf, K., s. Hunsmann, G., et al. . . . .	241
Schmidt, K.-H., Gerlach, D., Kühnemund, O., Köhler, W.: Quantitative differences in specific binding of fibrinogen fragment D by M-positive and M-negative group-A streptococci . . . . .	145
Schmidt, N. J., s. Schnurr, D. P. . . . .	1
Schmitz, H., s. Hunsmann, G., et al. . . . .	167, 241
Schneider, J., s. Hunsmann, G., et al. . . . .	167, 241
Schneider, J., s. Koyanagi, Y., et al. . . . .	127
Schneider, J., s. Yamamoto, N., et al. . . . .	57
Schneweis, K. E., Forstbauer, H., Olbrich, M., Tag, M.: Pathogenesis of genital herpes simplex virus infection in mice. III. Comparison of the virulence of wild and mutant strains . . . . .	187
Schnurr, D. P., Schmidt, N. J.: Coxsackievirus B3 persistence and myocarditis in NFR nu/nu and +/nu mice . . . . .	1
Seki, H., s. Ebina, T., et al. . . . .	87
Seto, K., s. Watanabe, T., et al. . . . .	251
Shimada, K., s. Tanaka, S., et al. . . . .	155
Skupin-Schüssler, H., s. Näher, H., et al. . . . .	311
Sperling, U., s. Näher, H., et al. . . . .	311
Suzuki, T., s. Tanaka, S., et al. . . . .	155
Tag, M., s. Schneweis, K. E., et al. . . . .	187
Takase, S., s. Ebina, T., et al. . . . .	87
Tanaka, S., Suzuki, T., Shimada, K., Nishioka, K.: Low molecular weight-IgM antibody in syphilis detected by <i>Treponema pallidum</i> immune adherence (TPIA) test . . . . .	155
Taylor-Robinson, D., s. Tuffrey, M., et al. . . . .	29
Thomas, B., s. Tuffrey, M., et al. . . . .	29
Toniolo, A., Matteucci, D., Conaldi, P. G., Bendinelli, M.: Virus-induced immunodeficiency: Antibody responsiveness of MuLV-infected spleen cells following transfer into irradiated mice . . . . .	197
Tsukamoto, T., s. Ebina, T., et al. . . . .	87
Tuffrey, M., Falder, P., Thomas, B., Taylor-Robinson, D.: The distribution and effect of <i>Chlamydia trachomatis</i> in CBA mice inoculated genitally, intra-articularly or intravenously . . . . .	29
Umezawa, K., s. Ebina, T., et al. . . . .	87
Vallbracht, A., s. Zahn, J., et al. . . . .	9
Watanabe, T., Matsuura, M., Seto, K.: Proteolytic activity of mycoplasmas and ureaplasmas isolated freshly from human saliva . . . . .	251
Wigand, R., s. Poryo, A. . . . .	219
Wikborn, C., s. Landgren, B.-M., et al. . . . .	179
Yamamoto, N., Hayami, M., Komuro, A., Schneider, J., Hunsmann, G., Okada, M., Hinuma, Y.: Experimental infection of cynomolgus monkeys with a human retrovirus, adult T-cell leukemia virus Yamamoto, N., s. Koyanagi, Y., et al. . . . .	57
Yasutake, N., Ohwaki, M., Yokokura, T., Mutai, M.: Comparison of antitumor activity of <i>Lactobacillus casei</i> with other bacterial immunopotentiators . . . . .	127
Yokokura, T., s. Yasutake, N., et al. . . . .	113
Zahn, J., Vallbracht, A., Flehmig, B.: Hepatitis A-virus in cell culture. V. Neutralizing antibodies against hepatitis A-virus . . . . .	113
Zingler, G., s. Nimmich, W. . . . .	9
	75